

Claims

[1] A flame-retardant thermoplastic resin composition comprising at least a plant-derived resin (A) and a flame retardant (B), wherein the weight proportions of the individual components in the flame-retardant thermoplastic resin composition are:

$$30 \leq W_1 < 55.5$$

$$44.5 < X_1 \leq 70$$

wherein W_1 is the percentage by mass of the plant-derived resin (A) and X_1 is the percentage by mass of the flame retardant (B), and 90% by mass or more of the flame retardant (B) is composed of a metal hydrate containing an alkali metal-based substance in an amount of 0.2% by mass or less.

[2] A flame-retardant thermoplastic resin composition comprising at least a plant-derived resin (A), a flame retardant (B) and an aromatic ring-containing compound (C), wherein the weight proportions of the individual components in the flame-retardant thermoplastic resin composition are:

$$25 \leq W_2 < 55.5$$

$$39.5 \leq X_2 \leq 70$$

$$0.5 \leq Y \leq 20$$

wherein W_2 is the percentage by mass of the plant-derived resin (A), X_2 is the percentage by mass of the

flame retardant (B), and Y is the percentage by mass of the aromatic ring-containing compound (C), and 90% by mass or more of the flame retardant (B) is composed of a metal hydrate containing an alkali metal-based
5 substance in an amount of 0.2% by mass or less.

[3] A flame-retardant thermoplastic resin composition comprising at least a plant-derived resin (A), a flame retardant (B), an aromatic ring-containing compound (C) and a nucleating agent (D),
10 wherein the weight proportions of the individual components in the flame-retardant thermoplastic resin composition are:

$$25 \leq W_3 < 55.5$$

$$29.5 < X_3 \leq 70$$

15 $0.5 \leq Y \leq 20$

$$0.05 < Z \leq 20$$

wherein W_3 is the percentage by mass of the plant-derived resin (A), X_3 is the percentage by mass of the flame retardant (B), Y is the percentage by mass of
20 the aromatic ring-containing compound (C), and Z is the percentage by mass of the nucleating agent (D), and 90% by mass or more of the flame retardant (B) is composed of a metal hydrate containing an alkali
25 less.

- [4] A flame-retardant thermoplastic resin composition according to Claim 2 or 3, wherein the aromatic ring-containing compound (C) is a compound selected from the group consisting of phenols,
5 silicone compounds and boron compounds.
- [5] A flame-retardant thermoplastic resin composition according to any of Claims 1 to 4, wherein the plant-derived resin (A) is a polylactic acid resin.
- [6] A flame-retardant thermoplastic resin
10 composition according to any of Claims 1 to 5, further comprising a drip-proof agent (E) in a weight proportion of 1% by mass or less to the total weight of the flame-retardant thermoplastic resin composition.
- [7] A flame-retardant thermoplastic resin
15 composition according to any of Claims 1 to 6, further comprising a high-strength fiber (F) in a weight proportion of 10% by mass or less to the total weight of the flame-retardant thermoplastic resin composition.